ORDER NO. HAD8506128C6

Service Manual

07070127 91004988 10
SM-SBG720 1 ST
SVC MNL ... PX/MM

Speaker System

SB-G920
SB-G720

Color

(M) ..... Walnut

SB-G920

SB-G720

Color	Area
(M)	[XA] ..... Asia, Oceania, Africa, Middle Near East and Latin America
(M)	[PA] ..... Far East PX
(M)	[PC] ..... European Military
(M)	[PAM] ... PX Mail Order Item

SPECIFICATIONS

SB-G920

Type:	4 way 5 speaker bass-reflex system	Output Sound Pressure Level:	99 dB/W (1.0 m)
Speakers:	Woofer: 41 cm, cone type Midrange: 18 cm, cone type Tweeter: horn type Super Tweeter: horn type × 2	Crossover Frequency:	350 Hz, 3,000 Hz, 10,000 Hz
		Frequency Range:	20 Hz ~ 40 kHz
		Dimensions:	46.4(W) × 72.0(H) × 30.9(D) cm
Impedance:	8 ohms		
Input Power:	380W, Music	Weight:	16.5 kg

(Specifications are subject to change without notice for further improvement.)

CARACTERISTIQUES

Type:	4 voies, 5 haut-parleurs, bass-reflex	Entrée maximale:	380 watts, musique
Haut-parleurs:	graves: 41 cm, type à cône moyennes: 18 cm type à cône aigus: type à corne "Super haut-parleur" aigu: type à corne × 2	Niveau de pression sonore de sortie:	99 dB/W (1,0 m)
		Fréquence de commutation:	350 Hz, 3.000 Hz, 10.000 Hz
		Gamme de fréquences:	20 Hz ~ 40 kHz
Impédance:	8 ohms	Dimensions:	46,4(l) × 72,0(H) × 30,9(P) cm
		Poids:	16,5 kg

(Sujet à changement sans préaris.)

ESPECIFICACIONES

Tipo:	Sistema de reflexión de bajos con 5 altoparlantes de 4 vías	Capacidad de potencia:	380 vatios, música
Altoparlantes:	"Woofer"; tipo cónico, de 41 cm "Gama media": tipo cónico, de 18 cm "Tweeter": tipo bocina "Super tweeter": tipo bocina × 2	Nivel de presión acústica de salida:	99 dB/W (1,0 m)
		Frecuencia de cruce:	350 Hz, 3.000 Hz, 10.000 Hz
		Alcance de frecuencia:	20 Hz ~ 40 kHz
		Dimensiones:	46,4(ancho) × 72,0(alto) × 30,9(prof.) cm
Impedancia:	8 ohmios	Peso:	16,5 kg

(Estas especificaciones están sujetas a cualquier cambio sin previo eviso.)

Technics

Matsushita Electric Trading Co., Ltd.
P.O. Box 288, Central Osaka Japan

Panasonic Tokyo Office
Matsushita Electric Trading Co., Ltd.
1-2, 1-chome, Shibakoen, Minato-ku, Tokyo 105, Japan

SB-G720

SPECIFICATIONS

Type:	4 way 4 speaker bass-reflex system
Speakers:	Woofer: 35 cm, cone type Midrange: 16 cm, cone type Tweeter: horn type Super Tweeter: horn type
Impedance:	8 ohms
Input Power:	250W, Music
Output Sound Pressure Level:	97 dB/W (1.0 m)
Crossover Frequency:	350 Hz, 3,000 Hz, 10,000 Hz
Frequency Range:	25 Hz ~ 40 kHz
Dimensions:	41.8(W) × 66.9(H) × 27.7(D) cm
Weight:	14.0 kg

(Specifications are subject to change without notice for further improvement.)

CARACTERISTIQUES

Type:	4 voies, 4 haut-parleurs, bass-reflex
Haut-parleurs:	graves: 35 cm, type à cône moyennes: 16 cm type à cône aigus: type à corne "Super haut-parleur" aigu: type à corne
Impédance:	8 ohms
Entrée maximale:	250 watts, musique
Niveau de pression sonore de sortie:	97 dB/W (1,0 m)
Fréquence de commutation:	350 Hz, 3.000 Hz, 10.000 Hz
Gamme de fréquences:	25 Hz ~ 40 kHz
Dimensions:	41,8(L) × 66,9(H) × 27.7(P) cm
Poids:	14.0 kg

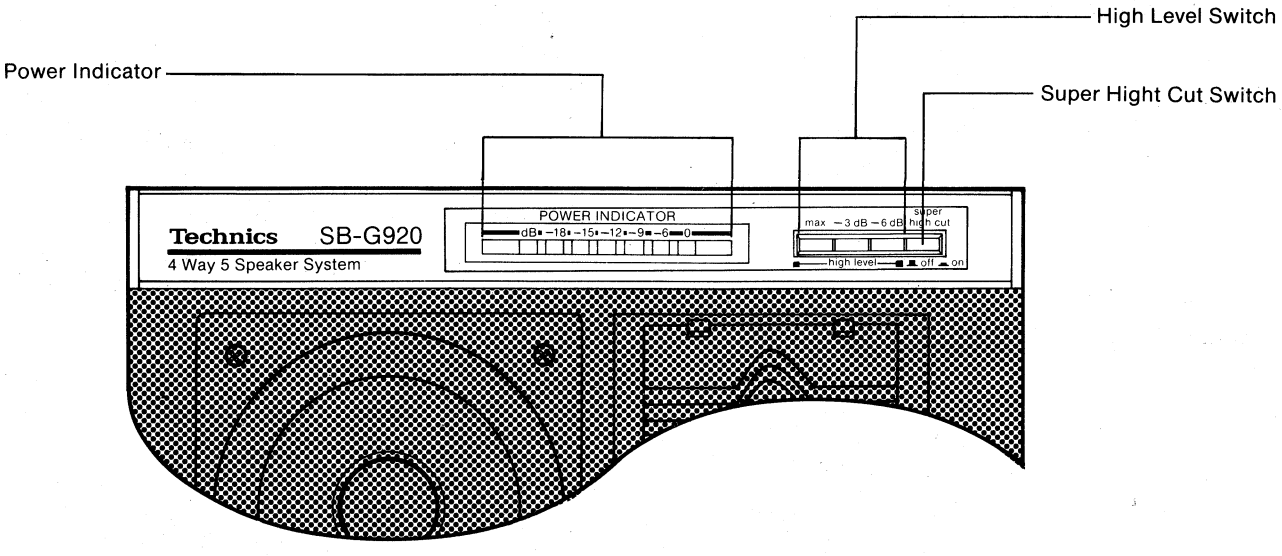
(Sujet à changement sans préaris.)

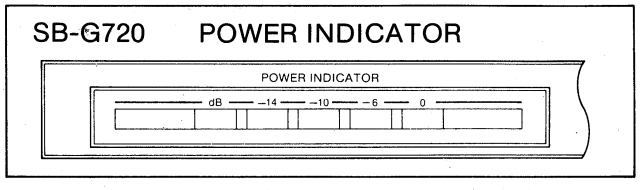
ESPECIFICACIONES

Tipo:	Sistema de reflexión de bajos con 4 altoparlantes bidireccionales
Altoparlantes:	"Woofer"; tipo cónico, de 35 cm "Gama media": tipo cónico, de 16 cm "Tweeter": tipo bocina "Super tweeter": tipo bocina
Impedancia:	8 ohmios
Capacidad de potencia:	250 vatios, música
Nivel de presión acústica de salida:	97 dB/W (1,0 m)
Frecuencia de cruce:	350 Hz, 3.000 Hz, 10.000 Hz
Alcance de frecuencia:	25 Hz ~ 40 kHz
Dimensiones:	41,8(ancho) × 66,9(alto) × 27.7(prof.) cm
Peso:	14.0 kg

(Estas especificaciones están sujetas a cualquier cambio sin previo eviso.)

■ LOCATION OF CONTROLS





■ REPLACEMENT PARTS LIST

Notes: 1. Part numbers are indicated on most mechanical parts. Please use this part number for parts orders.
2. The parenthesized numbers in columns of description stand for the quantity per set.
3. Bracket indications in Ref. No. columns specify the area. Parts without these indications can be used for all areas.
4. The Ⓢ mark is service standard parts and may differ from production parts.

SB-G920

Ref. No.		Part. No.	Part Name & Description	
SPEAKERS				
SP1		SASS38PL01-T	Woofer	
SP2		EAS18PM68SA	Midrange	
SP3		EAS19HD01S	Tweeter	
SP4, 5		EAS3FP16A	Super Tweeter	
COILS				
L1		SLCSA152JZ	1.5 mH	
L2		SLCSA821JZ	0.82 mH	
L3		SLCSA182JZ	1.8 mH	
L4		SLCSA271JZ	0.27 mH	
CAPACITORS				
C1		ECEA100Y33K	33 microfarad, 100V, Electric	
C2		ECEA100Y18K	18 microfarad, 100V, Electric	
C3		ECEA50Y3R3K	3.3 microfarad, 50V, Electric	
RESISTORS				
R1		ERD50VJ470	47 ohm, 1/2W, Carbon	
R2		ERD50VJ820	82 ohm, 1/2W, Carbon	
R3, 4		ERD50VJ391	390 ohm, 1/2W, Carbon	
R5	Ⓢ	ERG1ANJ561	560 ohm, 1W, Metal Film	
R11	Ⓢ	ERF5SK5R6	5.6 ohm, 5W, Non-Flammable	
R12		ERF5AK2R7	2.7 ohm, 5W, Non-Flammable	
DIODES				
D1~4		SVDSAA5724S	LED (ORANGE)	
D5		MA1030FV	Zener, 3V	
D6~9		SVDSAA5724S	LED (ORANGE)	
D10	Ⓢ	RVDRD6R8EB	Zener, 6.8V (Product Part: MA1068)	
D11, 12		SVDSAA5724S	LED (ORANGE)	
D13		MA1047	Zener, 4.7V	
D14~17		SVDSPR5704S	LED (RED)	
D18	Ⓢ	MA162A	Diode, (Product Part No.: MA150)	
THERMAL RELAY				
TMR1		SSBS16AB03	1.6A	
SWITCH				
S1		SSHS402	Attenuator	
CABINET PARTS				
1		SYBS227	Grill	(1)
2		SYES24	Panel, Midrange	(1)
3		SYES59	Panel, Tweeter	(1)
4		SYES42	Panel, Super Tweeter	(2)
5		SGES62	Panel, Woofer	(1)
6		SUVS3	Cover, Midrange	(1)
7 [XA]		SKAS2061W	Cabinet Ass'y	(1)
7 [PA, PAM, PC]		SKAS2060W	Cabinet Ass'y	(1)
8		SJFBG920-MX	Terminal Board Ass'y	(1)
10		SGKS268	Ornament Plate	(1)
11		SGWS24	Ornament	(1)
12		SBC 529-2	Button, Attenuator	(4)
13		SHRS9132-1	Holder, Button	(1)
14		SMES34	Bracket	(1)
15		SMES33	Lens, LED	(1)
16		SJSA63	Socket, Lead Wire	(1)
17		SJT3413	Terminal, 4 pin (P.C.B. side)	(1)
SCREWS				
N1		SNES9003-2FJ	Screw, Midrange	(4)
N2		SNES9006FJ	Screw, Tweeter, Super Tweeter	(12)
N3		SNES9003-2FG	Screw, Woofer	(8)
N4		XTB4+14G	Screw, Tweeter	(4)
N5		XTB4+10G	Screw, Super Tweeter	(8)
N6		XTB4+35B	Screw, Terminal	(4)
N7		XMS31+D16FZ	Screw, Terminal	(4)
N8		XTB4+35A	Screw, Ornament	(4)
N9		XSB3+6S	Screw, Switch Bracket	(2)
N10		XTB3+8J	Screw, LED PCB	(2)

SB-G720

Ref. No.		Part. No.	Part Name & Description	
SPEAKERS				
SP1		SASS33PL01-T	Woofer	
SP2		EAS16PM238SA	Midrange	
SP3		EAS19HD01S	Tweeter	
SP4		EAS3FP16A	Super Tweeter	
COILS				
L1		SLCSA152JZ	1.5 mH	
L2		SLCSA821JZ	0.82 mH	
L3		SLCSA182JZ	1.8 mH	
L4		SLCSA271JZ	0.27 mH	
CAPACITORS				
C1		ECEA100Y33K	33 microfarad, 100V, Electric	
C2		ECEA100Y18K	18 microfarad, 100V, Electric	
C3		ECEA50Y3R3K	3.3 microfarad, 50V, Electric	
RESISTORS				
R1		ERD50VJ470	47 ohm, 1/2W, Carbon	
R2		ERD50VJ820	82 ohm, 1/2W, Carbon	
R3, 4		ERD50VJ391	390 ohm, 1/2W, Carbon	
R5	Ⓢ	ERG1ANJ561	560 ohm, 1W Metal Film	
R11	Ⓢ	ERF5SK5R6	5.6 ohm, 5W, Non-Flammable	
R12		ERF5AK2R7	2.7 ohm, 5W, Non-Flammable	
DIODES				
D1~4		SVDSAA5724S	LED (ORANGE)	
D5		MA1030FV	Zener, 3V	
D6, 7		SVDSAA5724S	LED (ORANGE)	
D8~11		SVDSPR5704S	LED (RED)	
D12	Ⓢ	MA162A	Diode (Product Part No.: MA150)	
THERMAL RELAY				
TMR1		SSBS16AB03	1.6A	
SWITCH				
S1		SSHS402	Attenuator	
CABINET PARTS				
1		SYBS229	Grill	(1)
2		SYES26	Panel, Midrange	(1)
3		SYES59	Panel, Tweeter	(1)
4		SYES42	Panel, Super Tweeter	(1)
5		SGES66	Panel, Woofer	(1)
6		SXES3	Cover, Midrange	(1)
7 [XA]		SKAS2081W	Cabinet Ass'y	(1)
7 [PA, PAM, PC]		SKAS2080W	Cabinet Ass'y	(1)
8		SJFBG720-MX	Terminal Board Ass'y	(1)
9		SGKS272	Name Plate	(1)
10		SGKS270	Ornament Plate	(1)
11		SYES62	Ornament	(1)
12		SBC529-2	Button, Attenuator	(4)
13		SHRS9132-1	Holder, Button	(1)
14		SME34	Bracket	(1)
15		SME33	Lens, LED	(1)
16		SJSA63	Socket, Lead Wire	(1)
17		SJT3413	Terminal, 4 pin (P.C.B. side)	(1)
SCREWS				
N1		SNES9003-2FJ	Screw, Midrange	(4)
N2		SNES9006FJ	Screw, Tweeter, Super Tweeter	(8)
N3		SNES9003-2FG	Screw, Woofer	(6)
N4		XTB4+14G	Screw, Tweeter	(4)
N5		XTB4+10G	Screw, Super Tweeter	(6)
N6		XTB4+35B	Screw, Terminal	(4)
N7		XMS31+D16FZ	Screw, Terminal	(4)
N8		XTB4+35A	Screw, Ornament	(4)
N9		XSB3+6S	Screw, Switch Bracket	(2)
N10		XTB3+8J	Screw, LED PCB	(2)

SB-G920

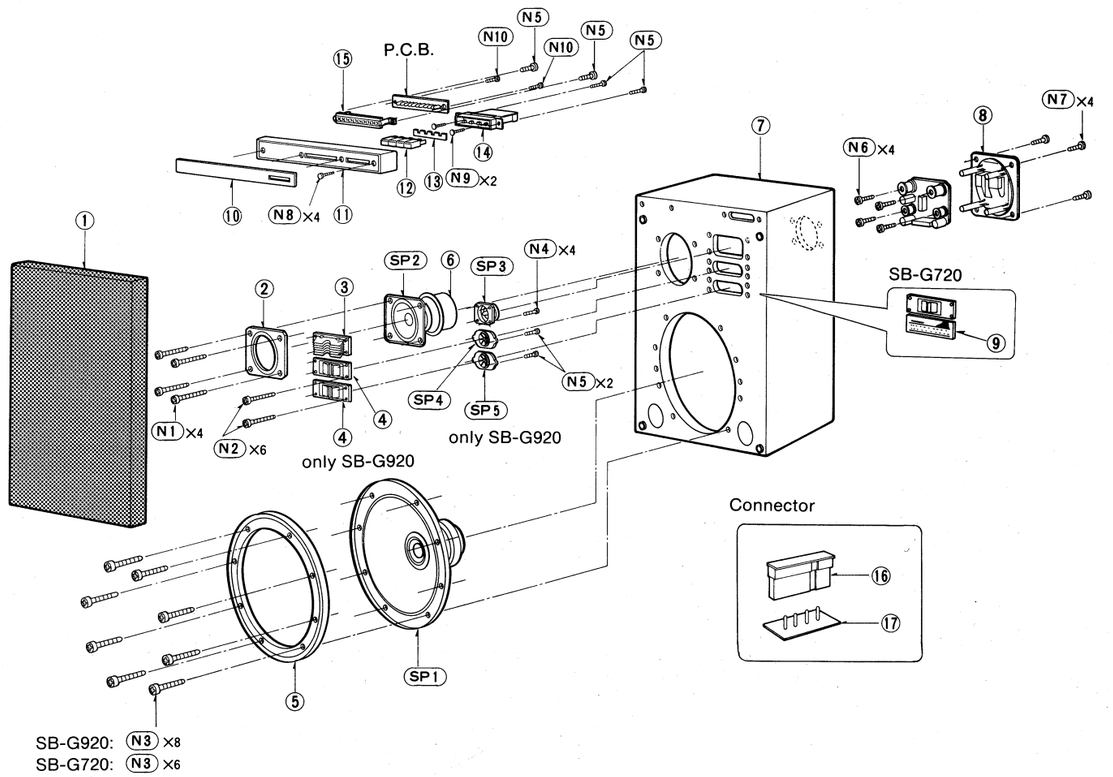
Ref. No.	Part. No.	Part Name & Description	
ACCESSORIES			
A1	SQFS396	Instruction Book	(1)
A2	SWXS189-2	Speaker cord	(1)
PACKING PARTS			
P1	SPHS6026R	Polyethylene Sheet	(1)
P2	SPHS6030	Soft Sheet	(1)
P3	SPE27	Rope	(420 cm)
P4	SPSS9014	Pad, Corner	(2)
P5	SPSS9032	Pad, Corner	(2)
P6	SPSS1030	Pad, Corner	(4)
P7	SPSS9054	Pad, Bottom	(1)
P8 [XA]	SPGS302-3	Carton Box	(1)
P8 [PA]	SPGS302	Carton Box	(1)
P8 [PAM]	SPGS302-1	Carton Box	(1)
P8 [PC]	SPGS302-2	Carton Box	(1)

SB-G720

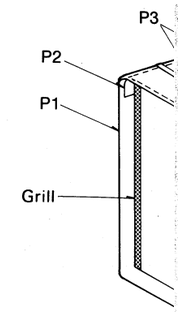
Ref. No.	Part. No.	Part Name & Description	
ACCESSORIES			
A1 [PA, PAM]	SQFS400	Instruction Book	(1)
A1 [PC, XA]	SQFS401	Instruction Book	(1)
A2	SWXS189-2	Speaker cord	(1)
PACKING PARTS			
P1	SPHS6026R	Polyethylene Sheet	(1)
P2	SPHS6030	Soft Sheet	(1)
P3	SPE27	Rope	(400 cm)
P4	SPSS9014	Pad, Corner	(2)
P5	SPSS9032	Pad, Corner	(2)
P6	SPSS1030	Pad, Corner	(4)
P7	SPSS9056	Pad, Bottom	(1)
P8 [XA]	SPGS304-3	Carton Box	(1)
P8 [PA]	SPGS304	Carton Box	(1)
P8 [PAM]	SPGS304-1	Carton Box	(1)
P8 [PC]	SPGS304-2	Carton Box	(1)

■ EXPLODED VIEW

SB- G920/G720



■ PACKING



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me & Description	
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00V, Electric	
0V, Electric	
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SB-G920

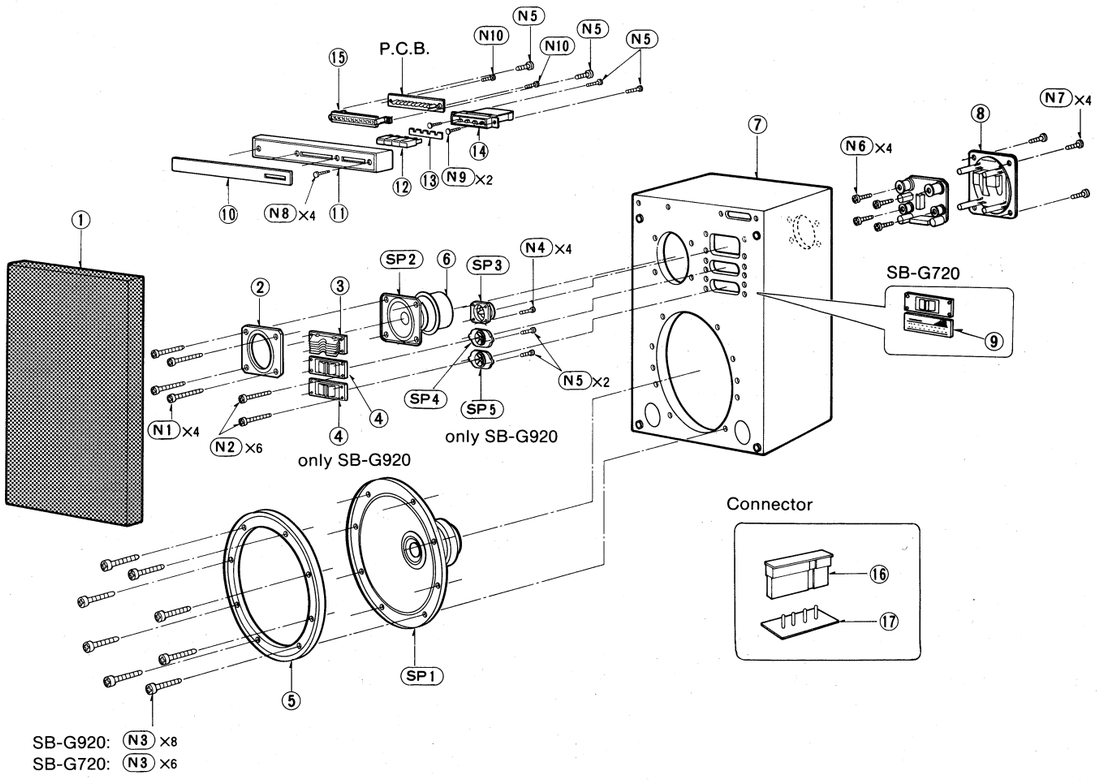
Ref. No.	Part. No.	Part Name & Description	
ACCESSORIES			
A1	SQFS396	Instruction Book	(1)
A2	SWXS189-2	Speaker cord	(1)
PACKING PARTS			
P1	SPHS6026R	Polyethylene Sheet	(1)
P2	SPHS6030	Soft Sheet	(1)
P3	SPE27	Rope	(420 cm)
P4	SPSS9014	Pad, Corner	(2)
P5	SPSS9032	Pad, Corner	(2)
P6	SPSS1030	Pad, Corner	(4)
P7	SPSS9054	Pad, Bottom	(1)
P8 [XA]	SPGS302-3	Carton Box	(1)
P8 [PA]	SPGS302	Carton Box	(1)
P8 [PAM]	SPGS302-1	Carton Box	(1)
P8 [PC]	SPGS302-2	Carton Box	(1)

SB-G720

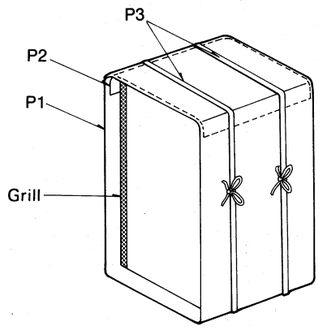
Ref. No.	Part. No.	Part Name & Description	
ACCESSORIES			
A1 [PA, PAM]	SQFS400	Instruction Book	(1)
A1 [PC, XA]	SQFS401	Instruction Book	(1)
A2	SWXS189-2	Speaker cord	(1)
PACKING PARTS			
P1	SPHS6026R	Polyethylene Sheet	(1)
P2	SPHS6030	Soft Sheet	(1)
P3	SPE27	Rope	(400 cm)
P4	SPSS9014	Pad, Corner	(2)
P5	SPSS9032	Pad, Corner	(2)
P6	SPSS1030	Pad, Corner	(4)
P7	SPSS9056	Pad, Bottom	(1)
P8 [XA]	SPGS304-3	Carton Box	(1)
P8 [PA]	SPGS304	Carton Box	(1)
P8 [PAM]	SPGS304-1	Carton Box	(1)
P8 [PC]	SPGS304-2	Carton Box	(1)

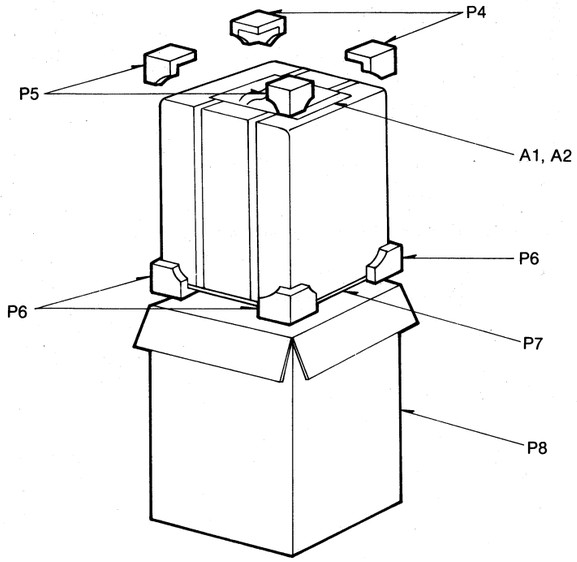
■ EXPLODED VIEW

SB- G920/G720



■ PACKING





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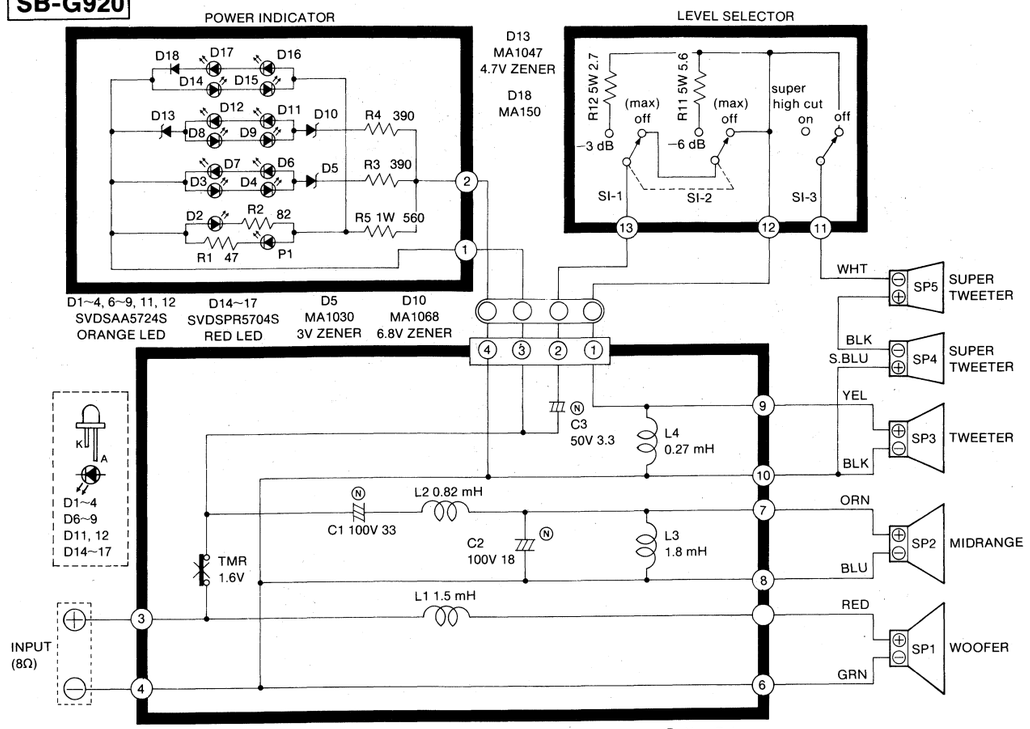
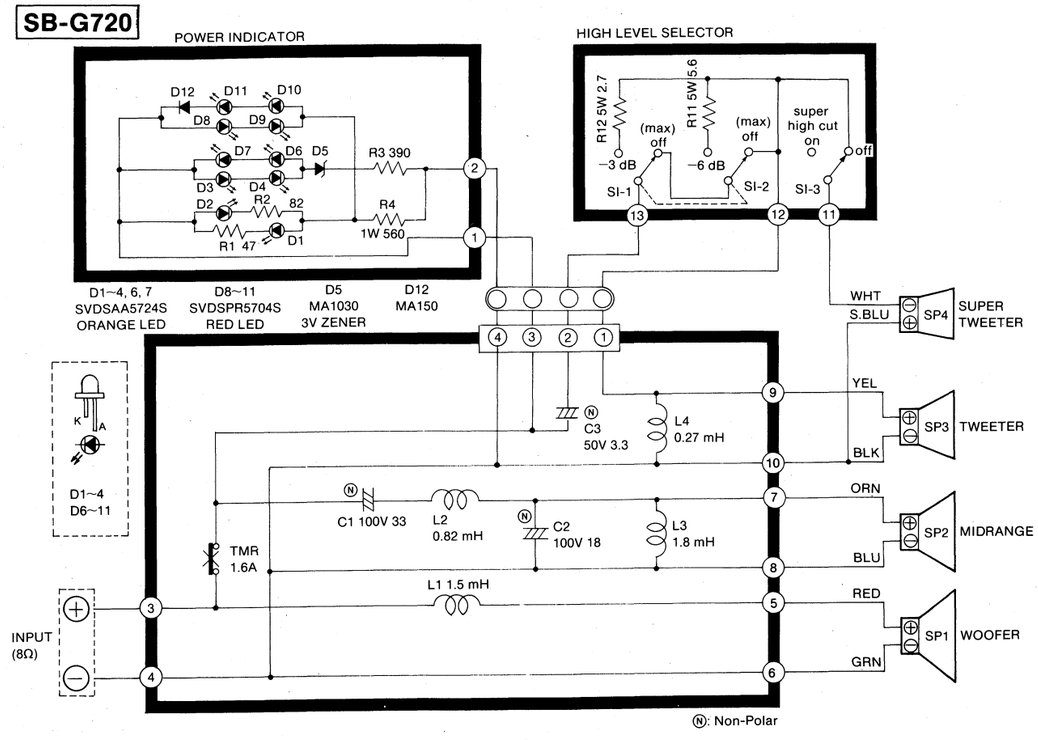
■ SCHEMATIC DIAGRAM

(This schematic diagram may be modified at any time with the development of new technology.)

SB-G920

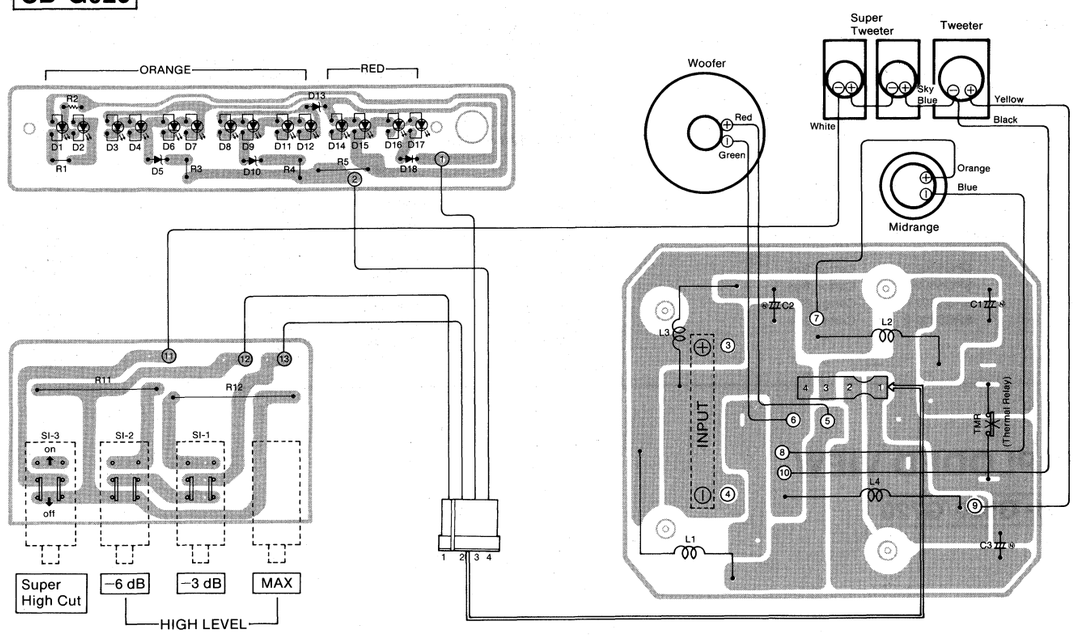


SB-G720

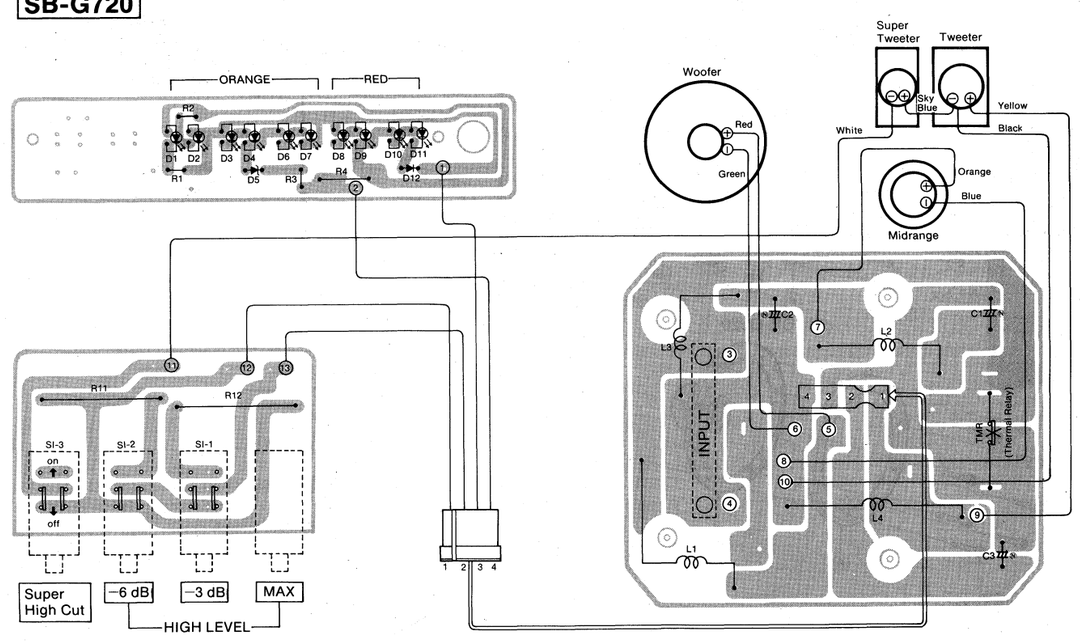


■ CIRCUIT BOARD AND WIRING CONNECTION DIAGRAM

SB-G920



SB-G720



■ SERVIC

Ref. No. 1	H
Procedure 1	1

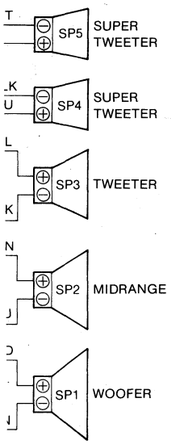
Eyeleteer

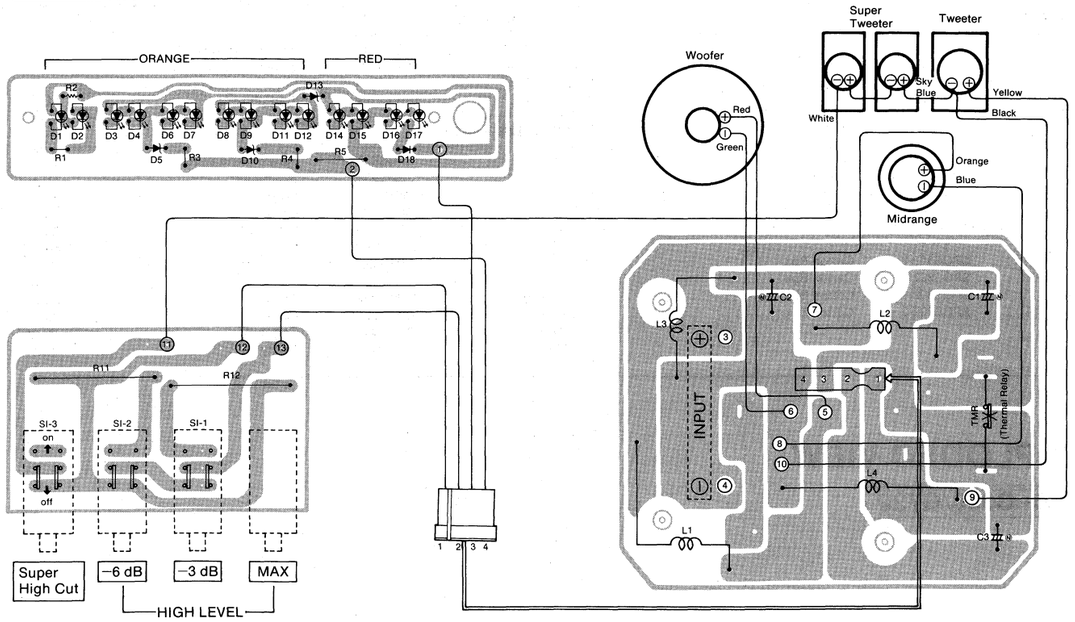
Ref. No. 2	H
Procedure 1 ➧ 2	

High

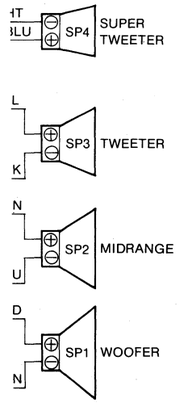
■ CIRCUIT BOARD AND WIRING CONNECTION DIAGRAM

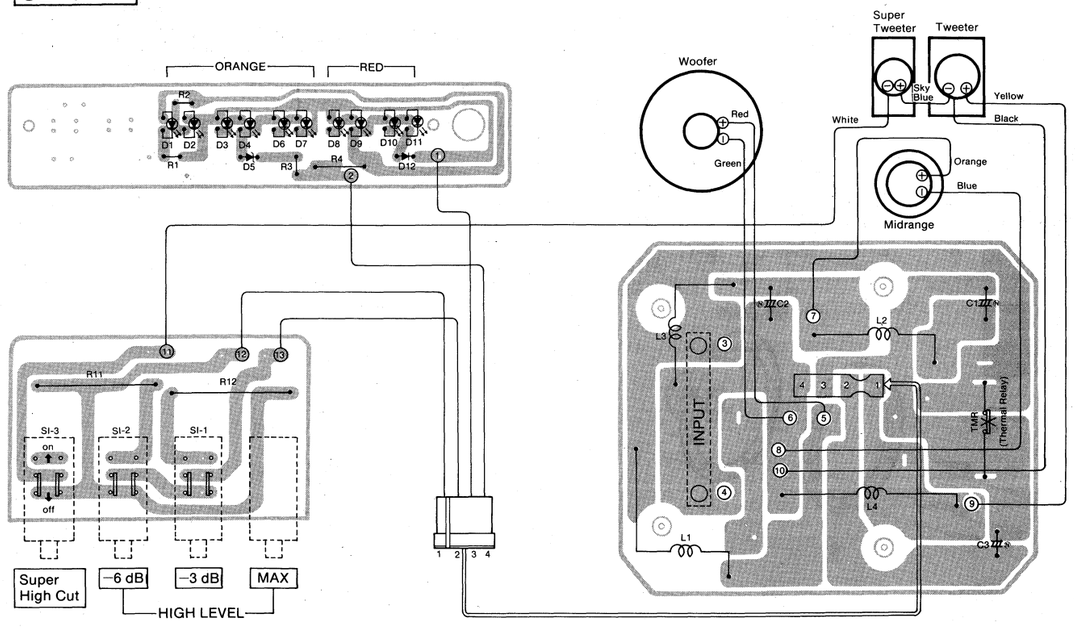
SB-G920





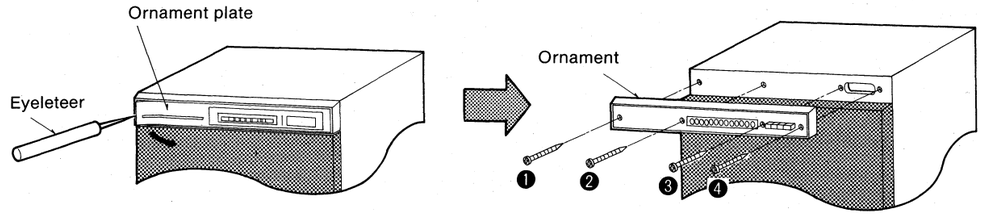
SB-G720





■ SERVICING METHOD

Ref. No. 1	How to remove the plate
Procedure 1	1. Remove the ornament plate by using a thin screwdriver or eyeleteer to loosen the left side of the plate. 2. Remove the 4 screws. 3. Remove the ornament.



Ref. No. 2	How to remove the P.C.B.
Procedure 1 ▸ 2